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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

U.S. Appln. No.: 10/560,244

application:

LISTING OF CLAIMS:

(currently amended): An ac generator for a vehicle comprising:

a rotor having field windings,

a stator including a stator core arranged opposed to the rotor and an electrical conductor

wound on the stator core, and

a housing supporting the rotor and the stator, wherein the stator core is constituted by

laminated core having a plurality of slots each extending to an axial direction, the electrical

conductor is comprised of a slot-in portion located in the slots and a cross-over portion

connecting each of the slot-in portions at the shaft end side of the stator, wherein the conductor

of the slot-in portion located in the slots is substantially rectangular in its cross-sectional profile

and the conductor of the cross-over portion is substantially circular in its cross-sectional profile,

and at least longer side portion of the conductor of the slot-in portion located in the slots has an

insulation coating of which thickness is smaller than that of insulation coating in the cross-over

portion.

wherein the cross-over portion comprises at least one gap between the insulation coating

of adjacent elements of the conductor.

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2. (original): An ac generator for a vehicle of claim 1, wherein a conductor of the

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slot-in portion located in the slots is a substantially rectangular in cross section a shorter side

thereof being in the radial direction of the generator and a longer side thereof being in the

circumferential direction of the generator.

3. (original): An ac generator for a vehicle of claim 1, wherein a conductor of the

slot-in portion located in the slots is a substantially rectangular in cross section a shorter side

thereof being in the circumferential direction of the generator and a longer side thereof being in

the radial direction of the generator.

4. (original): An ac generator for a vehicle of claim 2, wherein a conductor of the

slot-in portion located in the slots is closely disposed on a line to the radial direction.

5. (original): An ac generator for a vehicle of claim 2, wherein a conductor of the

slot-in portion located in the slot is closely disposed on plural lines to the radial direction.

6. (original): An ac generator for a vehicle of claim 1, wherein a conductor of the

slot-in portion located in the slot is impregnated with insulating resins.

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7. (original): An ac generator for a vehicle of claim 1, wherein the periphery of the

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cross-over portion is protected by the housing and the laminated core is directly held by the

housing made of metal.

8. (original): An ac generator for a vehicle of claim 7, wherein the periphery of the

housing is provided with a plurality of ribs and charging air holes or discharging air holes formed

between the ribs.

9. (previously presented): An ac generator for a vehicle of claim 1, wherein a cross-

section of the slot-in portion is smaller than a cross-section of the cross-over portion.

10. (previously presented): An ac generator for a vehicle of claim 6, wherein the

insulation coating in the slot-in portion and the insulation coating in the cross-over section are

made of the same material.

11. (new): An ac generator for a vehicle comprising:

a rotor having field windings,

a stator including a stator core arranged opposed to the rotor and an electrical conductor

wound on the stator core, and

a housing supporting the rotor and the stator,

wherein:

the stator core is constituted by laminated core having a plurality of slots each

extending to an axial direction,

the electrical conductor is comprised of a slot-in portion located in the slots and a

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cross-over portion connecting each of the slot-in portions at the shaft end side of the

stator,

the conductor of the slot-in portion located in the slots is substantially rectangular

in its cross-sectional profile and the conductor of the cross-over portion is substantially

circular in its cross-sectional profile,

the slot-in portion comprises at least one coil element in each of the plurality of

slots.

the cross-over portion comprises ends of coil elements,

the ends of the coil elements connect the coil element of the slot-in portions in

adjacent slots among the plurality of slots,

distances between the ends of coil elements in the cross-over portion are different.

and

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said at least longer side portion of the conductor of the slot-in portion located in the slots has an insulation coating of which thickness is smaller than that of insulation coating of each of the ends of coil elements in the cross-over portion.

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